#### BEA920000019US1

### **CLAIMS**

I claim:

1. A method for handling operations within a hardware device, comprising: providing within the device information regarding the operation, the provided information including information identifying the operation; selecting at least some of the identifying information of the operation; converting at least some of the information regarding the operation based upon the selected identifying information; and executing the operation based upon the converted information.

- 2. The method of claim 1, wherein the provided information is within a register of the device.
- 3. The method of claim 1, wherein the identifying information is within a register of the device.
- 4. The method of claim 1, wherein the converted information is within a register of the device.
- 5. The method of claim 1, wherein the step of providing information regarding the operation comprises:

loading operation identifications; and generating, based on the operation identifications, a range of operations related to the provided information.

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- 6. The method of claim 5, wherein the step of loading operation identifications comprises creating a list of identified operations.
- 7. The method of claim 5, wherein the operation identifications comprise fields for operation identification, length, attribute and target of each operation.
- **8.** A method for redirecting transactions within a hardware device, wherein transactions occurring within said device contain fields of information regarding the transaction, the method comprising the steps of:

loading all of said fields necessary to identify a transaction into a first register; selecting which fields of said first register are to be acted upon; converting the transaction information to be redirected through a pre-programmed value for each said field; and outputting said new transaction results to a register.

- **9.** The method of claim 8, wherein the step of loading said field necessary to identify a transaction include first loading transaction identifications, then operating on said transaction identifications to generate a range of transactions related to one or more of said fields of information.
- 10. The method of claim 8, wherein said fields of information are comprised of a field for transaction identification, length, attribute and target of each transaction.
- 11. A method for redirecting operations within a hardware device, wherein operations occurring within said device contain fields of information regarding the operation and such operations are compared with a preprogramed list of responses and the hardware device

issues responses based on each operation, the method comprising the steps of:

creating a list of identified operations for which a redirected response is desired;

comparing each operation with the list of said identified operations; and

substituting the redirected response for the response from said preprogrammed list of responses.

- 12. The method of claim 11, wherein the step creating a list of identified operations include first loading transaction identifications, then operating on said operation identifications to generate a range of operations related to one or more of said fields of information.
- 13. The method of claim 11, wherein said fields of information are comprised of a field for transaction identification, length, attribute and target of each transaction.
- 14. In a data processing system in which a given operation results in a predetermined response, a system for altering such predetermined response comprised of: first storage means to identify operations for which a response different from said predetermined response is desired; comparator means to compare said given operation with said identified operations; second storage means to load a substitute response for said predetermined response; and
  - selection means to select said substitute response when a given operation meets a predefined criteria for substituting a response from said second register means.
- 15. The system of claim 14, wherein one or more of said storage means may be selectively enabled or disabled.

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16. In a data processing system utilizing a hardware control device in which a given operation results in a predetermined response for that operation, a system for providing a programmable redefinition of allowed instructions and associated responses within said hardware device including:

first register means which contains fields to identify preselected operations which may occur within the system;

second register means which operates upon selected fields in the first register means to further define a criteria related to a range of operations for which redirecting a response is desired;

comparator means which compares the identified operations with a current operation and selects a substitute value when said identified operation meets a said defined criteria; and

third register means which contain substitute values for all said operations which meet said defined criteria.

- 17. The system of claim 16, wherein one or more of said register means may be selectively enabled or disabled.
  - 18. A data processing system for executing an operation, comprising: an identification store including information identifying at least selected operations; a comparator responsive to the operation and the identifying information; and a substitute operation responsive to the comparator and the operation.
- 19. The system of claim 18, wherein the comparator is responsive to a mask of the identifying information.

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**20.** The system of claim 18, further including a disable signal to prevent operation of the comparator.